L Number	Hits	Search Text	DB	Time stamp
11	1		USPAT;	2003/08/20 10:16
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29	2	6260059.URPN.	USPAT	2003/08/20 12:03
30	6	("5202977" "6085224" "6094673" "6115712" "6134580"	USPAT	2003/08/20 12:08
		["6144989").PN.		
34	1	agent with search near depth	USPAT;	2003/08/20 13:12
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35	3	agent with search near2 depth	IBM_TDB USPAT;	2003/08/20 13:17
33	3	agent with search near 2 depth	US-PGPUB;	2000/00/20 10:17
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51	0	agent same depth adj of adj search	USPAT;	2003/08/20 13:18
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52	6	agent same depth near2 search	USPAT;	2003/08/20 13:19
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55	6	agent same depth near2 search	USPAT;	2003/08/20 13:47
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57	341	depth near search	USPAT;	2003/08/20 13:48
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3	2 5	("5734897" "5890146").PN. 6144989.URPN.	USPAT	2003/08/19 13:41
5	9	("5638494" "5734897" "5826020" "5890146" "6144989" "6201948" "6260059" "6330586" "6349325").PN.	USPAT	2003/08/19 13:46
7	7	(US-5890146-\$ or US-5734897-\$ or US-6260059-\$ or US-6295535-\$ or US-6349325-\$ or US-6144989-\$ or US-5638494-\$).did.	USPAT	2003/08/19 13:58
8	0	((US-5890146-\$ or US-5734897-\$ or US-6260059-\$ or US-6295535-\$ or US-6349325-\$ or US-6144989-\$ or US-5638494-\$).did.) and (search same depth)	USPAT	2003/08/19 13:59
9	0	((US-5890146-\$ or US-5734897-\$ or US-6260059-\$ or US-6295535-\$ or US-6349325-\$ or US-6144989-\$ or US-5638494-\$).did.) and (search and depth)	USPAT	2003/08/19 13:59
10	2	((US-5890146-\$ or US-5734897-\$ or US-6260059-\$ or US-6295535-\$ or US-6349325-\$ or US-6144989-\$ or US-5638494-\$).did.) and (search)	USPAT	2003/08/19 14:00
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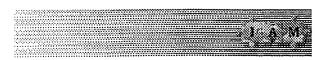
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Professor Nick Jennings



ARCHON: Cooperating Agents for Industrial Process Control

OVERVIEW

ARCHON (ARchitecture for Cooperative Heterogeneous ON-line systems) was Europe's largest ever project in the area of Distributed Artificial Intelligence (DAI). It devised a general-purpose architecture, software framework, and methodology which has been used to support the development of DAI systems in a number of real world industrial domains. Two of these applications, electricity transportation management and particle accelerator control, have been run successfully on-line in the organisation for which they were developed (respectively, Iberdrola an electricity utility in the north of Spain and CERN the European Centre for high energy physics research near Geneva).

These pages recount the problems, insights and experiences gained whilst deploying ARCHON technology in these real-world industrial applications. Firstly, it gives the rationale for a DAI approach to industrial applications and highlights the key design forces which shape work in this important domain. Secondly, the ARCHON framework is described - with a special emphasis being placed upon the implementation architecture. Thirdly, detailed descriptions of the Iberdrola and CERN applications are given - the motive for a DAI approach is outlined, the multiple agent systems which were built are described, and the benefits which accrued are stated. Finally, the lessons distilled from this work are discussed so that the engineers of future DAI systems may profit from our experiences.

- Introduction
- The ARCHON Architecture and Software Framework
- Electricity Transportation Management
- Particle Accelerator Control
- Conclusions
- Acknowledgements
- References

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- T. Wittig, N. R. Jennings and E. H. Mamdani: <u>"ARCHON A Framework for Intelligent Cooperation"</u>, IEE-BCS Journal of Intelligent Systems Engineering Special Issue on Real-time Intelligent Systems in ESPRIT, 3 (3) 1994, 168-179.
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Evolutionary Neural Networks for Value Ordering in.. - Moriarty, Miikkulainen (Correct) (2 citations) task (Barto et al. 1989 Grefenstette 1990)an **agent** observes a state of the system and chooses from a The SANE approach should extend well to other **domains** where heuristic information is either difficult see (Kumar 1992)Most CSP methods are based on **depth**-first **search** with backtracking. When variables ftp.cs.utexas.edu/pub/Al-Lab/tech-reports/UT-Al-TR-94-218.ps.Z

Integrating Explanation-Based and Inductive Learning Techniques... - Estlin (1996) (Correct) a list of actions that can be used by an execution **agent** to perform a task with little or no human and is crucial for efficient planning in most **domains**. Machine learning techniques enable a planning ftp.cs.utexas.edu/pub/mooney/papers/scope-proposal-96.ps.Z

Design and Implementation of a Parallel Constraint... - Platzner, Rinner (Correct) most common parallel CSP algorithms as distributed-agent-based (DAB) parallel-agent-based (PAB) and c 1 c 6. Each node is assigned with the domain of the variable D 1 D 5. In the dual which explore the search space of the CSP by a depth-first search. Many improvements over simple www-iti.tu-graz.ac.at/de/people/rinner/../.publications/papers/tr9604.ps.gz

Reusable Strategies for Software Agents via the Subsumption...- Greg Butler (Correct)
Reusable Strategies for Software Agents via the Subsumption Architecture Greg Butler,
does one reuse strategies for agents in the same domain? Of course, these questions are related, and so
unpredictable environment, and the focus on 'depth' search to provide solutions was not timely
www.cs.concordia.ca/~faculty/gregb/home/PS/ssr99-agents-subsumption-long.ps.gz

On-line Relaxing and Off-line Learning of Effective Social Laws - Will Briggs (Correct) is to be practical. We propose a method by which **agents** may reduce both planning and communication costs lasi.lynchburg.edu/briggs_w/public/research/leee.ps

Exploiting Parallelism in Constraint Satisfaction for.. - Platzner, Rinner, Weiss (1995) (Correct) simulation QSim [Kuipers 94]A parallel-agent based strategy (PAB) is used to solve the Given a set of n variables each with an associated domain, and given a set of constraints each involving a backtracking algorithms, which find solutions with depth-first search. Many sequential and parallel www-iti.tu-graz.ac.at/de/people/rinner/../../publications/papers/platzner95d.ps.gz

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